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# WORK INJURIES IN MONTANA

7-1-70 - 6-30-71



SERVING MONTANA EMPLOYERS  
& EMPLOYEES SINCE 1915

## 56th YEAR

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October 1, 1971

Honorable Forest H. Anderson  
Governor of Montana

Dear Governor Anderson:

Pursuant to Section 92-842, Revised Codes of Montana, 1947, we are transmitting herewith the fifty-sixth annual report of the Industrial Accident Board.

Very truly yours,

/s/ J. J. Carden  
Chairman

/s/ Jack C. Carver  
Commissioner

/s/ Sidney T. Smith  
Commissioner

ATTEST:

/s/ Margaret Condon  
Secretary



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The activities of the Montana Industrial Accident Board during the 56th year are set forth in the following summary with the aid of statistical tables wherever it is felt necessary for the purpose of clarification.

Members of the Board are J. J. Carden, Chairman; Sidney T. Smith, Commissioner of Labor and Industry and ex-officio member of the Board; and Jack C. Carver, Director of the Division of Vocational Rehabilitation and ex-officio member of the Board.

The duties of the Industrial Accident Board are the administration of the Montana Workmen's Compensation Act, the administration of the Montana Occupational Disease Law, the administration of the Silicosis Benefit Program and the Volunteer Firemen's Compensation Act.

## PLAN I

Table 1 reflects the experience of the self-insured employers enrolled under Plan I of the Workmen's Compensation Act during the 56th year.

Table 1

### Plan I

#### COMPARATIVE SUMMARY OF ACTIVITY 55th Year - 56th Year

	1969 - 1970	1970 - 1971
Number of employers enrolled	64	70
Gross annual payroll	\$158,775,119.96	\$172,537,921.51
Number of work injuries reported	3,107	3,034
Number of claims filed	660	639
Occupational disease cases reported	2	1
Compensation benefits paid	\$ 832,490.81	\$ 861,792.55
Hospital, medical & burial benefits paid	\$ 534,533.14	\$ 478,300.35
Second injury fund contributions	-0-	500.00
Plan I administrative assessments	\$ 33,802.63	53,320.79



## PLAN II

Table 2 summarizes the experience of employers enrolled under Plan II of the Workmen's Compensation Act during the 56th year.

Table 2

### Plan II

#### COMPARATIVE SUMMARY OF ACTIVITY 55th Year - 56th Year

	1969 - 1970	1970 - 1971
Number of employers enrolled	6,975	7,213
Gross annual premium	\$ 6,454,039.00* <sup>1</sup>	\$ 6,335,220.00* <sup>2</sup>
Number of work injuries reported	10,151	9,724
Number of claims filed	1,663	1,179
Occupational disease cases reported	1	0
Compensation benefits paid	\$ 1,774,217.68	\$ 2,351,736.56
Hospital, medical & burial benefits paid	\$ 1,115,422.31	\$ 1,218,481.22
Second injury fund contributions	\$ 1,000.00	0
Plan II administrative assessments	\$ 163,222.03	\$ 195,127.38

\*<sup>1</sup> For calendar year 1969

\*<sup>2</sup> For calendar year 1970

## PLAN III

Table 3 reflects the experience of employers enrolled under Plan III of the Workmen's Compensation Act during the 56th year.

Table 3

### Plan III

#### COMPARATIVE SUMMARY OF ACTIVITY 55th Year - 56th Year

	1969 - 1970	1970 - 1971
Number of employers enrolled	8,051	8,180
Paid premium	\$ 6,755,890.58	\$ 7,363,024.56
Number of work injuries reported	9,218	9,228
Number of claims filed	1,732	1,669
Occupational disease cases reported	2	2
Compensation benefits paid	\$ 3,958,834.96	\$ 4,426,442.63
Hospital, medical & burial benefits paid	\$ 1,425,248.40	\$ 1,588,011.82
Second injury fund contributions	\$ 2,000.00	1,500.00
Plan III administration assessments	\$ 628,318.82	\$ 570,589.06



# INDUSTRIAL ACCIDENT BOARD ADMINISTRATION ACCOUNT INCOME AND DISBURSEMENTS

The Industrial Accident Board spent a total of \$860,614.72 for the administration of the Workmen's Compensation Act during the 56th year of the Act's existence. This is an increase of \$41,075.31 over the cost of the 55th year.

The cost of the administration of the Act is borne by the assessment of self-insured employers, insurance carriers, and the Industrial Insurance Fund.

Income for the Administrative Fund for the 56th year:

Plan I	\$ 37,383.11
Plan II	195,127.38
Plan III	570,589.06
Boiler Inspection	31,595.21
Occupational Disease Filing Fee	2,292.03
Refunds	3,222.71
Adjustment	287.98
	<u>\$ 840,497.48</u>
Balance - June 30, 1970	91,100.67
TOTAL	<u>\$ 931,598.15</u>

Disbursements necessary to administer the Workmen's Compensation Act are charged to the Plan causing the disbursements. Disbursements by Plan for the 56th year were as follows:

Plan I	\$ 56,411.42
Plan II	194,916.66
Plan III	580,025.32
Boiler Inspection	29,161.32
Occupational Disease	100.00
TOTAL	<u>\$ 860,614.72</u>
Balance - June 30, 1970	\$ 70,983.43

\* \* \* \* \*

Table 4

## PROPORTIONATE COST OF OPERATING THE INDUSTRIAL ACCIDENT BOARD (% by Plan)

<u>Plan</u>	<u>Percentage</u>
Plan I	6.55%
Plan II	22.64%
Plan III	67.39%
Boiler Inspection	3.39%
Occupational Disease	.03%
	<u>100.00%</u>
Increase in cost of 1970 fiscal year	5.01%

Table 5

## OCCUPATIONAL DISEASE FUND

Period: July 1, 1970 to June 30, 1971

Add: Appropriation for Benefits	\$653,520.00	
Appropriation for Operations	6,200.00	
Appropriations for Personal Services	5,885.00	
Cancelled Warrants (Benefits)	5,180.00	
Less J. E. 23-5	420.00	
Total		\$670,365.00
Less: Benefits		650,021.48
Less Operation Expenses:		
Supplies & Materials	95.54	
Travel	509.36	
Medical Exams	4,522.00	5,126.90
Less Personal Services Expenses:		
Salaries	5,280.52	
P.E.R.S. & Social Security	566.46	5,846.98
Ending Cash Balance June 30, 1971		\$ 9,369.64

## SILICOSIS BENEFITS

	Claimants	Benefits	Administrative	Decrease
1961-62	765	\$697,118.22	\$24,016.76	
1962-63	713	722,924.41	15,100.68	52
1963-64	657	616,047.00	13,210.15	56
1964-65	602	575,468.00	15,158.01	55
1965-66	547	626,693.50	9,624.19	55
1966-67	508	584,667.00	8,314.62	39
1967-68	455	745,610.93	8,294.19	53
1968-69	412	664,966.39	8,848.89	21
1969-70	391	683,367.75	12,381.26	20
1970-71	363	650,021.48	10,973.88	28

## CLAIMS

The claims department processed 9,228 work injuries and 1,669 claims under Plan III during the 56th fiscal year. This is an increase of 0.1% in work injuries reported and a 3.6% decrease in the number of claims filed.

## HEARINGS AND ADJUDICATIONS

A total of 3,487 claims for lost time were filed during the past year. There was a total of 273 disputed claims under all three plans of coverage. The disputes involved disability in the large majority of these cases. The disputed cases were placed on the Board's docket and were disposed of either through formal hearings and/or agreed settlements.

The following table reflects the hearings activity by Plan for the past three years:

Table 6						
DISPUTED CLAIMS BY PLAN						
7-1-68 - 6-30-71						
Plan	54th Year	% of Total	55th Year	% of Total	56th Year	% of Total
I	50	13%	59	19%	56	20%
II	293	74%	221	72%	177	65%
III	52	13%	26	9%	40	15%
TOTAL	395	100%	306	100%	273	100%

## OCCUPATIONAL DISEASE

A total of 3 occupational disease cases were reported by employers under the Occupational Disease Act. Plan I reported 1 case and Plan III reported 2 cases.

The disease reported was chemical poisoning in one case, zinc fumes in one case, and mercury poisoning (fatal) in the last case.

## WORK INJURY RATE

Montana's overall work injury rate, all non agricultural industry combined, based on the number of disabling injuries per 1,000 workers, decreased by 3.4 from 33.2 per 1,000 workers, to 29.8 per 1,000 workers.

All major industry divisions, with the exception of two, experienced a lower disabling injury rate during the 56th year. The Finance, Insurance and Real Estate gained .2 and the State and Local Government gained 3.5 disabling injuries per 1,000 work injuries reported.

Table 7

### DISABLING WORK INJURIES PER 1,000 WORKERS

Industry Division	1969-70	1970-71	Change
All Industry	33.2	29.8	- 3.4
Mining	83.2	57.2	- 26.0
Construction	79.8	72.3	- 7.5
Manufacturing	88.3	77.1	- 11.2
Transportation, Communica- tions and Utilities	21.6	20.6	- 1.0
Finance, Insurance and Real Estate	3.9	4.1	+ 0.2
Trade	26.2	23.9	- 2.3
Service	16.2	12.6	- 3.6
State and Local Government	13.2	16.7	+ 3.5

## WORK FATALITIES

The number of compensable fatalities decreased from 51 in 1969-70 to 49 in 1970-71. Three industry divisions, manufacturing, construction, and transportation, communications and utilities, accounted for 75.5% of the fatalities experienced during the 56th year.

The work fatality rate for the 1970-71 period for all industries combined was 2.6 deaths per 10,000 employees, the same as for the previous year. The 5-year average death rate per 10,000 employees, July 1, 1965 through June 30, 1971, is 2.6.

## NATURE OF INJURY

With reference to the basic injury inflicted upon the worker in industry relative to frequency, we find that cuts, lacerations and punctures attained the dubious distinction of being first in frequency, accounting for 26.53% of the total. Strains, sprains and dislocations follow closely behind with 24.09% of the total. Bruises and contusions accounted for 14.55%, with the fracture category accounting for 6.96% of the total. These four categories, of the twelve considered, accounted for 72.13% of the total of reportable work injuries.

## NATURE OF INJURY (continued)

Injuries to the upper extremities (arms, hands and fingers) were the most frequent, accounting for 7,631, or 34.7% of the total.

Injuries to the back and trunk were second in frequency, with 5,277 reportable injuries for 24.0% of the total.

The trend relative to nature of injury by body location remains relatively unchanged from the preceding year.

## AGENCY

Working surfaces led all agencies as the agency responsible for the greatest number of work injuries reported, with 17.95% of the total chargeable work injuries.

Hand tools, as an agency, was the next in line, accounting for 3,385 or 15.39% of the total.

Unassigned flying particles, as an identifiable agency, complete our infamous trio of high ranking agencies, with 7.69% of the total.

Taken collectively, the three most common agencies mentioned accounted for approximately 41% of all injuries reported.

## ACCIDENT TYPE

The accident type classification identifies the event which directly resulted in the injury. The experience relative to accident type was very similar to last year. Struck by or striking against objects, machines or equipment was still the most common classification with 8,474, or 38.5% of the total. Falls and slips were second, with 3,887, or 17.7% of the total. Strain or overexertion, as a causal factor, still retained third ranking with 3,547, or 16.1% of the total. The three classifications combined account for approximately 72.3% of the total number of reportable work injuries.

## AGE AND SEX OF INJURED WORKERS

Women employees who suffer injuries are older, on the average, than men injured at work. The median age for injured women is 40.3 years compared with 33.3 years for men during the 56th year.

During the 56th year, 12.8% of all job injuries were sustained by women employees. There has been no change from the 55th year.

## STATISTICAL SUMMARY

Statistical tables covering the 56th year experience will be found on the following pages.



Table 8

## FATALITIES\* BY INDUSTRY

July 1, 1970 - June 30, 1971

INDUSTRY	Plan I	Plan II	Plan III	Total
AGRICULTURE & AGRICULTURAL SERVICES	<u>0</u>	<u>1</u>	<u>1</u>	<u>2</u>
General farms		1	1	
MINERAL EXTRACTION	<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>
Copper Ores	2			
CONTRACT CONSTRUCTION	<u>0</u>	<u>4</u>	<u>6</u>	<u>10</u>
Heavy construction except highway & street		3	1	
Miscellaneous special trade contractors		1	1	
Highway & street construction			1	
Roofing & sheet metal work			1	
General building contractors			2	
MANUFACTURING	<u>6</u>	<u>8</u>	<u>3</u>	<u>17</u>
Logging camp & logging contractors	3	5	3	
Bakery Products		1		
Mill work, veneer, plywood, prefab				
structural wood products		1		
Sawmills and planing mills		1		
Primary smelting & refining of nonferrous metals	2			
TRANSPORTATION	<u>3</u>	<u>3</u>	<u>4</u>	<u>10</u>
Telephone communication	1		1	
Telegraph communication	1			
Combination companies and systems	1			
Trucking local & long distance		3	2	
Air transportation, certified carriers			1	
TRADE	<u>0</u>	<u>3</u>	<u>1</u>	<u>4</u>
Miscellaneous wholesalers		1		
Hardware, plumbing, heating & supplies		1		
Gasoline service stations		1	1	
FINANCE, INSURANCE & REAL ESTATE	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
SERVICES	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
GOVERNMENT	<u>0</u>	<u>0</u>	<u>4</u>	<u>4</u>
All local city & county agencies except schools			3	
Department of Education			1	
TOTALS	11	19	19	49

\*Deaths for which findings and awards have been issued by the Industrial Accident Board

Table 9  
CAUSE OF DEATH BY MAJOR INDUSTRY  
July 1, 1970 - June 30, 1971

INDUSTRY	Plan I	Plan II	Plan III	Total
AGRICULTURE & AGRICULTURAL SERVICES	<u>0</u>	<u>1</u>	<u>1</u>	<u>2</u>
Fell into river and drowned		1		
Fell into irrigation ditch and drowned			1	
MINERAL EXTRACTION	<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>
Struck by fall of ground	<u>1</u>			
Crushed by a pile of steel stock	1			
CONTRACT CONSTRUCTION	<u>0</u>	<u>4</u>	<u>6</u>	<u>10</u>
Heart attack		<u>2</u>		
Struck by concrete truck		1		
Shock and fell from pole		1		
Airplane crash			2	
Electrocution			1	
Fell from airport hanger			1	
Truck and train collision			2	
MANUFACTURING	<u>6</u>	<u>8</u>	<u>3</u>	<u>17</u>
Caught in conveyor	<u>1</u>			
Struck by falling bails	1			
Caught between drum pully and belt	1			
Struck by falling tree	2		1	
Crushed by caterpillar	1			
Truck left roadway		2		
Fall from ladder		1		
Heart attack		1		
Struck by log		2		
Crushed by crane		1		
Crushed by log skidder		1	2	
TRANSPORTATION	<u>3</u>	<u>3</u>	<u>4</u>	<u>10</u>
Mercury poisoning	<u>1</u>			
Car-truck collision	1			
Electrocution	1			
Truck left roadway		1	1	
Truck "jack-knifed"		1		
Heart attack		1		
Fall from ladder (Elevation)			1	
Aircraft, mid-air collision			1	
Truck left roadway & struck pole			1	
TRADE	<u>0</u>	<u>3</u>	<u>1</u>	<u>4</u>
Truck-train collision		<u>1</u>		
Auto accident		1		
Gunshot wound		1		
Heart attack			1	



Table 9

## CAUSE OF DEATH BY MAJOR INDUSTRY (continued)

INDUSTRY	Plan I	Plan II	Plan III	Total
FINANCE	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
SERVICE	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
GOVERNMENT	<u>0</u>	<u>0</u>	<u>4</u>	<u>4</u>
Slipped and fell on sidewalk			<u>1</u>	
Heart attack			<u>1</u>	
Pickup truck left roadway & struck pole			<u>1</u>	
Automobile-bus collision			<u>1</u>	
TOTALS	<u>11</u>	<u>19</u>	<u>19</u>	<u>49</u>

Table 10

## DISABLING AND NON-DISABLING INJURIES

July 1, 1960 through June 30, 1971

YEAR	TOTAL INJURIES	DISABLING	PERCENT OF TOTAL	<i>Non-</i> DISABLING	PERCENT OF TOTAL	UNDETER- MINED	PERCENT OF TOTAL
1960 - 1961	19,869	6,264	31.5	13,306	67.0	299	1.5
1961 - 1962	20,153	5,987	29.7	13,722	68.1	444	2.2
1962 - 1963	21,005	5,968	28.4	14,672	70.0	365	1.6
1963 - 1964	21,393	6,202	29.0	14,744	68.9	447	2.1
1964 - 1965	22,032	6,227	28.3	15,324	69.5	481	2.2
1965 - 1966	22,949	6,178	27.0	16,233	70.7	538	2.3
1966 - 1967	22,767	6,329	27.8	15,880	69.8	558	2.5
1967 - 1968	22,799	6,590	28.9	15,491	68.0	718	3.2
1968 - 1969	23,195	6,661	28.7	15,826	68.2	708	3.1
1969 - 1970	22,476	6,549	29.1	14,914	66.4	1,013	4.5
1970 - 1971	21,986	5,832	26.5	14,872	67.6	1,282	5.8

Table 11

## DEATHS AND DEATH RATES

July 1, 1950 through June 30, 1971

YEAR	DEATHS	WORKERS* (thousands)	DEATHS PER 10,000 WORKERS
1950 - 1951	95	149	6.4
1951 - 1952	81	153	5.3
1952 - 1953	73	154	4.7
1953 - 1954	68	155	4.4
1954 - 1955	87	160	5.4
1955 - 1956	77	167	4.6
1956 - 1957	85	167	5.1
1957 - 1958	61	162	3.7
1958 - 1959	59	165	3.6
1959 - 1960	68	167	4.1
1960 - 1961	49	169	2.9
1961 - 1962	53	171	3.1
1962 - 1963	51	174	2.9
1963 - 1964	59	175	3.4
1964 - 1965	65	178	3.7
1965 - 1966	47	183	2.6
1966 - 1967	56	187	3.0
1967 - 1968	51	190	2.7
1968 - 1969	45	196	2.3
1969 - 1970	51	198	2.6
1970 - 1971	49	201	2.4

\*Number of workers in non-agricultural industries in Montana.

Source: Monthly Review of Montana Labor Market, Montana State Employment Service, Division of Employment Security Commission.

Table 12

WORK INJURY EXPERIENCE IN MONTANA  
July 15, 1915 through June 30, 1971

YEAR	TOTAL NO. OF ACCIDENTS	PLAN I	PLAN II	PLAN III	FATALS	NO. OF ACCIDENTS FOR EACH 1,000 WORKERS
1915 - 1916	6,802	4,391	2,236	175	136	
1916 - 1917	8,325	5,412	2,386	527	307	
1917 - 1918	5,820	3,668	1,483	669	123	
1918 - 1919	5,474	4,164	664	646	122	
1919 - 1920	4,914	3,164	741	1,009	94	38
1920 - 1921	3,858	1,939	854	1,065	83	
1921 - 1922	3,368	1,591	805	972	51	
1922 - 1923	5,129	2,875	1,024	1,230	81	
1923 - 1924	5,789	3,017	1,353	1,419	87	
1924 - 1925	5,816	3,280	1,257	1,279	79	
1925 - 1926	6,804	3,715	1,548	1,541	78	
1926 - 1927	6,879	3,611	1,725	1,543	93	
1927 - 1928	7,018	2,988	1,985	2,045	85	
1928 - 1929	8,364	3,359	2,383	2,622	89	
1929 - 1930	8,895	2,839	2,702	3,354	94	65
1930 - 1931	6,868	---- NOT AVAILABLE			55	
1931 - 1932	6,446	1,253	2,319	2,874	56	
1932 - 1933	5,482	489	1,715	3,278	31	
1933 - 1934	7,036	899	1,572	4,565	49	
1934 - 1935	10,630	838	2,454	7,338	65	
1935 - 1936	11,904	1,674	2,489	7,741	93	
1936 - 1937	12,685	2,262	2,035	8,388	103	
1937 - 1938	11,767	2,237	2,065	7,465	90	
1938 - 1939	10,176	1,282	2,131	6,763	63	
1939 - 1940	11,557	1,642	1,944	7,971	70	78
1940 - 1941	12,547	1,771	2,383	8,393	73	
1941 - 1942	13,258	2,348	2,492	8,418	108	
1942 - 1943	12,650	2,121	3,498	7,031	152	
1943 - 1944	11,127	1,820	3,158	6,149	97	
1944 - 1945	10,829	1,536	3,377	4,765	56	
1945 - 1946	10,196	1,139	3,266	5,791	44	
1946 - 1947	13,583	1,517	4,582	7,484	68	99
1947 - 1948	15,677	1,850	5,588	8,239	46	109
1948 - 1949	16,783	1,752	7,016	8,015	83	116
1949 - 1950	16,600	1,749	7,115	7,736	76	112
1950 - 1951	18,227	1,976	8,387	7,964	95	122
1951 - 1952	18,987	2,020	9,015	7,952	81	124
1952 - 1953	19,497	1,968	8,718	8,811	73	126
1953 - 1954	18,859	1,978	7,881	9,000	68	121
1954 - 1955	19,362	1,692	7,682	9,988	87	121
1955 - 1956	20,852	2,022	7,818	11,012	77	125
1956 - 1957	21,026	1,066	7,242	11,718	85	125
1957 - 1958	18,862	1,933	6,540	10,389	61	115
1958 - 1959	19,509	2,033	7,162	10,314	59	118
1959 - 1960	20,308	2,179	7,934	10,195	68	122
1960 - 1961	19,869	2,042	8,106	9,721	49	120

Table 12

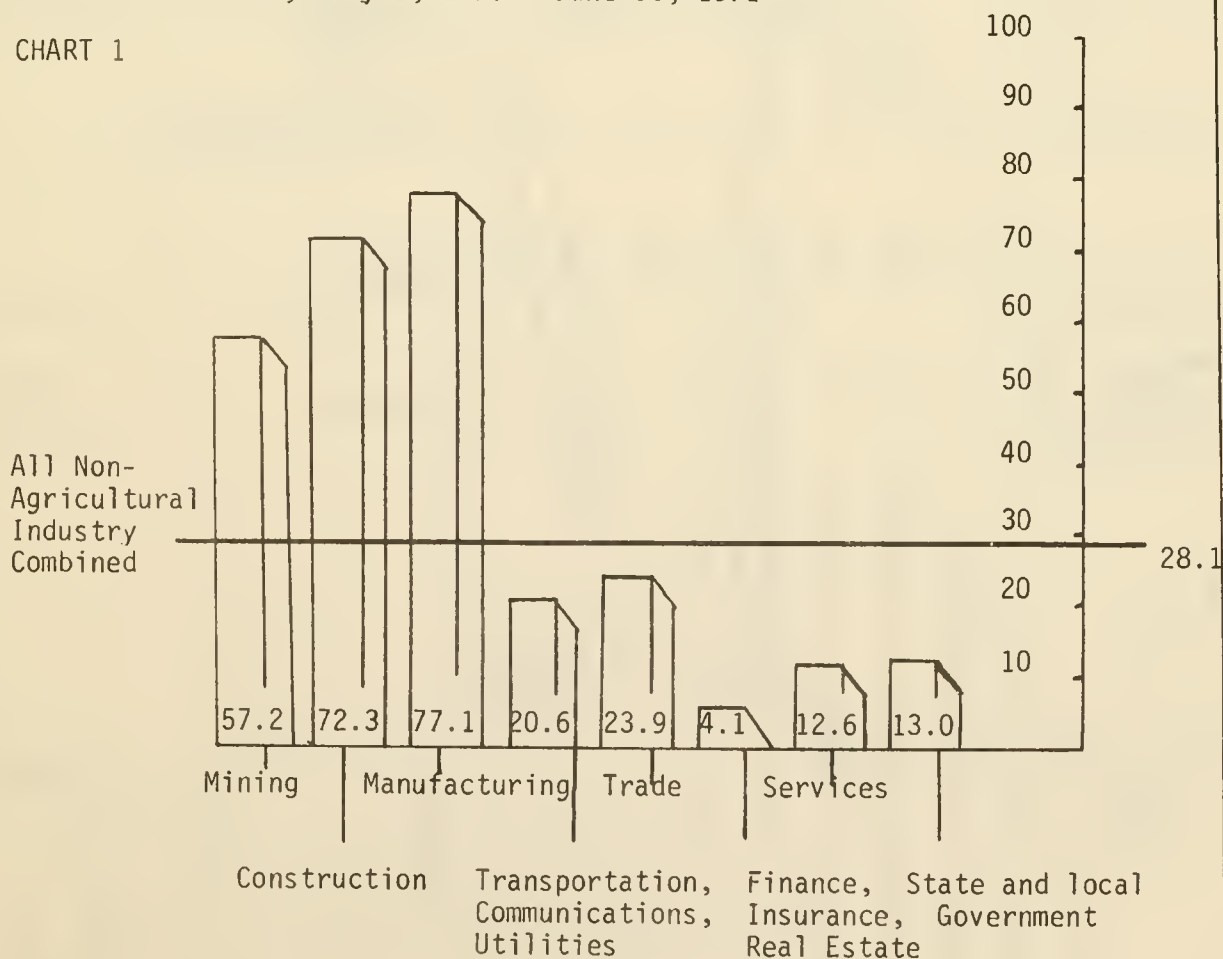
## WORK INJURY EXPERIENCE IN MONTANA (Continued)

YEAR	TOTAL NO. OF ACCIDENTS	PLAN I	PLAN II	PLAN III	FATALS	NO. OF ACCIDENTS FOR EACH 1,000 WORKERS
1961 - 1962	20,153	2,430	9,113	8,610	53	117
1962 - 1963	21,005	2,117	10,460	8,460	51	120
1963 - 1964	21,393	2,306	10,246	8,841	59	122
1964 - 1965	22,032	2,797	10,205	9,030	65	125
1965 - 1966	22,949	3,148	10,293	9,508	47	125
1966 - 1967	22,767	3,075	10,549	9,143	56	122
1967 - 1968	22,799	2,957	10,839	9,003	51	120
1968 - 1969	23,195	3,192	10,643	9,360	45	118
1969 - 1970	22,476	3,107	10,151	9,218	51	114
1970 - 1971	21,986	3,034	9,724	9,228	49	110

## DISABLING WORK INJURIES PER 1,000 EMPLOYEES

BY INDUSTRY GROUP, July 1, 1970 - June 30, 1971

CHART 1



REPORTED WORK INJURIES  
BY BODY LOCATION  
ALL INDUSTRIES

July 1, 1970 - June 30, 1971

(Percent of Total)

CHART 2

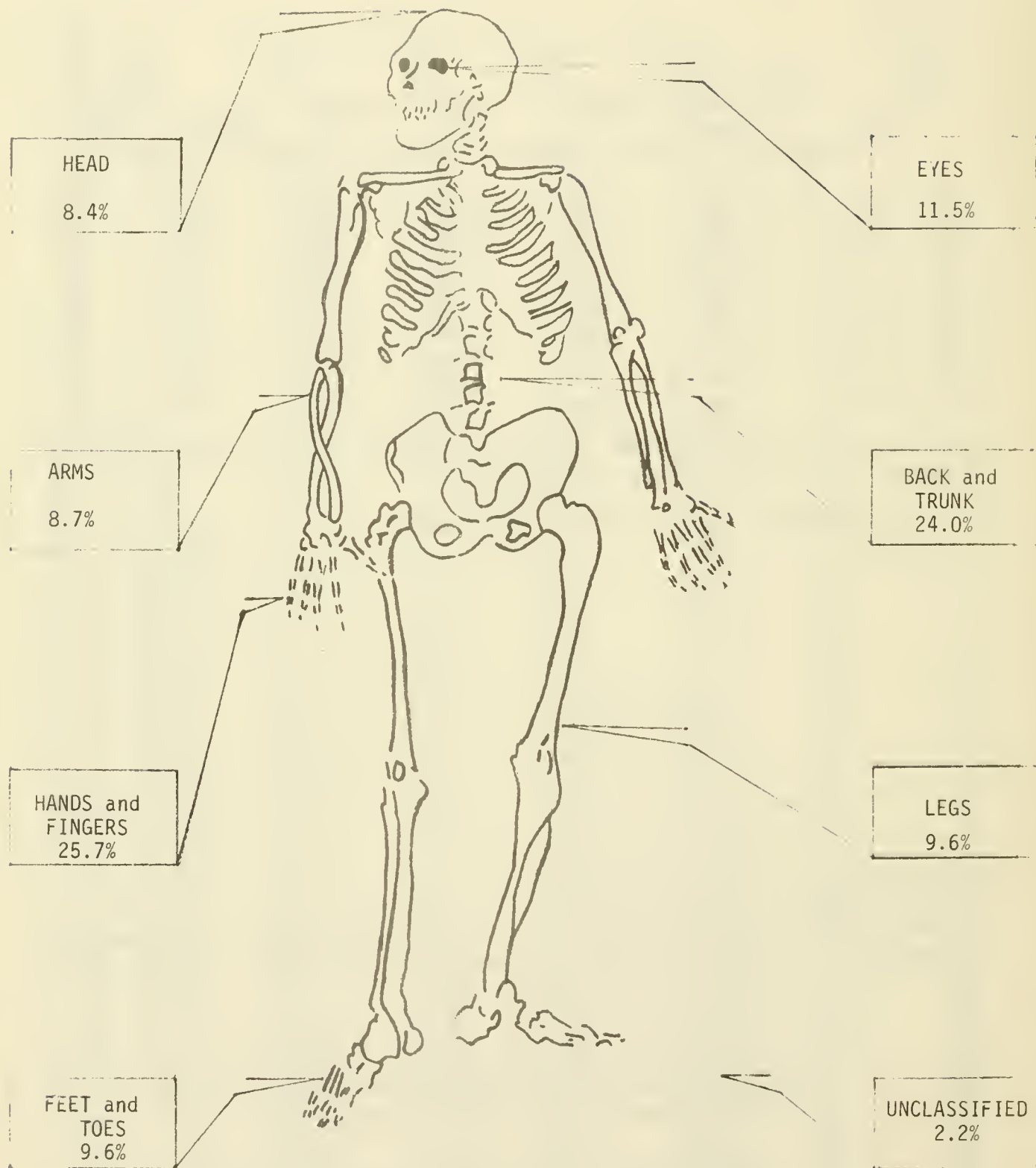


Table 13

ACCIDENT TYPE  
BY MAJOR INDUSTRY

ALL INDUSTRIES  
July 1, 1970 - June 30, 1971

ACCIDENT TYPE	PERCENT	TOTAL	AGRICULTURE AND AGRICULTURAL SERVICES	MINERAL EXTRACTION	CONTRACT CONSTRUCTION	MANUFACTURING	TRANSPORTATION, COMMUNICATIONS, AND UTILITIES	TRADE	FINANCE, INSURANCE AND REAL ESTATE	SERVICE	GOVERNMENT	OTHER
STRUCK BY OR STRIKING AGAINST	38.5	8,474	262	347	1,185	2,727	361	1,991	29	753	817	2
CAUGHT IN ON OR BETWEEN	8.4	1,855	52	134	233	618	97	384	15	143	178	1
FALLS AND/OR SLIPS	17.7	3,887	134	147	561	957	289	781	35	345	638	-
INVOLVING MOVING MOTOR VEHICLES	3.1	677	15	31	111	140	102	107	10	18	143	-
STRAIN OR OVER-EXERTION	16.1	3,547	75	106	535	802	226	845	23	377	557	1
CONTACT WITH TEMPERATURE EXTREMES	3.0	662	10	25	87	183	23	179	2	90	62	1
INHALATION, ABSORPTION, SWALLOWING	1.8	398	10	13	52	138	14	77	3	44	47	-
CONTACT WITH ELECTRIC CURRENT	.3	72	-	1	20	17	6	7	-	12	9	-
EXPLOSION, FLASH-BACK, ETC.	.6	141	3	19	12	36	5	42	1	8	15	-
OTHER AND NOT STATED	10.3	2,273	63	71	511	625	108	458	10	176	247	4
TOTAL	100.0	21,986	624	894	3,307	6,243	1,231	4,871	128	1,966	2,713	9
PERCENT		100.0	2.8	4.1	15.0	28.4	5.6	22.2	0.6	8.9	12.3	-



Table 14

## AGENCY BY MAJOR INDUSTRY

## ALL INDUSTRIES

July 1, 1970 - June 30, 1971

AGENCY	PERCENT	TOTAL	AGRICULTURE AND AGRICULTURAL SERVICES	MINERAL EXTRACTION	CONTRACT CONSTRUCTION	MANUFACTURING	TRANSPORTATION, COMMUNICATIONS, AND UTILITIES	TRADE	FINANCE, INSURANCE, AND REAL ESTATE	SERVICE	GOVERNMENT	OTHER
MACHINES	4.0	882	17	26	73	311	15	260	9	85	86	-
ELEVATORS	.1	22	-	2	-	4	-	9	-	7	-	-
HOISTING APPARATUS	1.3	292	-	132	46	57	15	24	-	6	12	-
CONVEYORS	.5	113	5	7	9	79	5	6	-	2	-	-
VEHICLES	7.3	1,611	47	64	205	326	187	407	16	92	267	-
HAND TOOLS	15.4	3,385	90	106	760	881	140	838	7	277	285	1
CHEMICALS, HOT OR INJURIOUS												
SUBSTANCES & DUSTS	6.4	1,416	17	58	215	486	43	305	8	152	131	1
WORKING SURFACES	18.0	3,948	90	142	566	949	289	838	39	358	677	-
LADDERS	1.3	288	7	17	86	46	21	57	1	15	37	1
CONTAINERS	4.5	991	22	23	64	179	74	385	1	96	147	-
TREES, LOGS, LUMBER	7.4	1,636	16	16	156	1,312	14	55	-	24	42	1
BOILERS, PRESSURE VESSELS	.4	83	1	6	18	18	9	16	-	7	8	-
PUMPS, PRIME-MOVERS	.4	93	1	5	19	17	3	36	-	4	8	-
MECHANICAL POWER TRANSMISSION												
APPARATUS	.6	122	5	6	12	77	3	11	-	3	5	-
ELECTRICAL APPARATUS	.7	149	-	8	25	35	17	26	-	24	14	-
FLYING PARTICLES, UNASSIGNED	7.7	1,692	44	64	401	477	63	414	2	121	103	3
ANIMALS	1.7	364	155	2	15	22	44	23	2	30	71	-
MOTION OR PRESSURE	5.0	1,082	25	26	154	241	77	282	7	113	157	-
ENVIRONMENTAL CONDITIONS	.1	31	2	3	3	5	6	4	-	2	6	-
MISCELLANEOUS AGENCIES	15.0	3,282	63	166	395	591	184	775	31	486	591	-
UNCLASSIFIED, INSUFFICIENT DATA	2.3	504	17	15	85	130	22	100	5	62	66	2
TOTAL	100.0	21,986	624	894	3,307	6,243	1,231	4,871	128	1,966	2,713	9
PERCENT		100.0	2.8	4.1	15.0	28.4	5.6	22.2	0.6	8.9	12.3	-



Table 15

NATURE OF INJURY  
BY MAJOR INDUSTRY

## ALL INDUSTRIES

July 1, 1970 - June 30, 1971

NATURE OF INJURY	PERCENT	TOTAL	AGRICULTURE AND AGRICULTURAL SERVICES	MINERAL EXTRACTION	CONTRACT CONSTRUCTION	MANUFACTURING	TRANSPORTATION, COMMUNICATIONS, AND UTILITIES	TRADE	FINANCE, INSURANCE, AND REAL ESTATE	SERVICE	GOVERNMENT	OTHER
AMPUTATION, LOSS OF, LOSS OF USE OF	.6	122	8	9	19	42	9	19	1	4	11	-
BURNS OR SCALDS	4.3	936	13	47	123	273	30	239	2	121	87	1
CUTS, LACERATIONS, PUNCTURES, ETC.	26.5	5,835	148	148	753	1,768	257	1,587	30	562	582	-
STRAINS, SPRAINS, DISLOCATIONS	24.1	5,297	125	183	850	1,258	390	1,170	44	470	805	2
CRUSHING INJURIES	1.6	356	9	26	49	113	27	69	-	19	43	1
FRACTURES	6.9	1,531	83	124	259	397	96	284	11	90	187	-
HERNIA	.9	211	7	12	23	56	5	55	2	15	36	-
INDUSTRIAL DISEASE	.4	81	6	5	7	23	5	18	-	10	7	-
BRUISES AND CONTUSIONS	14.6	3,200	94	166	429	1,099	193	539	14	250	414	2
OTHER	11.8	2,596	69	105	563	752	112	546	13	203	231	2
NOT STATED	8.3	1,821	62	69	232	462	107	345	11	222	310	1
TOTAL	100.0	21,986	624	894	3,307	6,243	1,231	4,871	128	1,966	2,713	9
PERCENT		100.0	2.8	4.1	15.0	28.4	5.6	22.2	0.6	8.9	12.3	-

Table 16

BODY LOCATION  
BY MAJOR INDUSTRY

## ALL INDUSTRIES

July 1, 1970 - June 30, 1971

	PERCENT	TOTAL	AGRICULTURE AND SERVICES	MINERAL EXTRACTION	CONTRACT CONSTRUCTION	MANUFACTURING	TRANSPORTATION, COMMUNICATIONS, AND UTILITIES	TRADE	FINANCE, INSURANCE, AND REAL ESTATE	SERVICE	GOVERNMENT	OTHER
EYES	11.5	2,524	53	94	567	822	101	523	7	186	169	2
HEAD, FACE AND NECK	8.4	1,838	61	105	273	506	133	370	11	148	230	1
BACK AND SPINE	17.2	3,777	101	129	582	873	277	897	27	319	571	1
TRUNK	6.8	1,500	61	73	231	441	77	252	9	113	243	-
ARMS	8.7	1,916	63	66	239	588	114	393	10	181	261	1
HANDS AND WRISTS	9.5	2,091	53	74	256	627	82	496	14	235	252	2
FINGERS	16.5	3,624	72	134	419	1,030	121	1,076	15	409	347	1
LEGS	9.6	2,115	81	102	323	643	133	351	12	190	280	-
FEET AND ANKLES	7.8	1,710	57	81	280	486	112	336	14	122	222	-
TOES	1.9	411	9	12	64	127	28	101	1	23	46	-
OTHER OR NOT STATED	2.2	480	13	24	73	100	53	76	8	40	92	1
TOTAL	100.0	21,986	624	894	3,307	6,243	1,231	4,871	128	1,966	2,713	9
PERCENT		100.0	2.8	4.1	15.0	28.4	5.6	22.2	0.6	8.9	12.3	-

Table 17

NATURE OF INJURY  
BY BODY LOCATION

## ALL INDUSTRIES

July 1, 1970 -  
June 30, 1971

## PERCENT

## TOTAL

## EYES

HEAD, FACE  
AND NECK

## BACK AND SPINE

## TRUNK

## ARMS

## HANDS AND WRISTS

## FINGERS

## LEGS

## FEET AND ANKLES

## TOES

## OTHER

AMPUTATION, LOSS OF,  
LOSS OF USE OF

BURNS AND SCALDS

CUTS, LACERATIONS,  
PUNCTURES, ETC.STRAINS, SPRAINS,  
DISLOCATIONS

CRUSHING INJURIES

FRACTURES

HERNIA

INDUSTRIAL DISEASE

BRUISES &amp; CONTUSIONS

OTHER

NOT STATED

TOTAL

PERCENT

	.6	122	1	21	2	2	2	-	87	5	-	2	-
	4.3	936	268	130	4	19	123	182	66	69	47	-	28
	26.5	5,835	256	729	19	70	470	991	2,320	598	300	40	42
	24.1	5,297	-	277	2,869	249	518	248	140	393	575	14	14
	1.6	356	1	2	2	5	1	30	242	4	21	36	12
	6.9	1,531	-	183	62	202	111	148	318	115	204	160	28
	.9	211	1	-	1	190	1	-	-	-	-	-	18
	.4	81	2	9	-	12	7	21	9	5	3	1	12
	14.6	3,200	51	191	196	411	450	320	336	614	417	136	78
	11.8	2,596	1,843	130	94	131	68	54	28	127	26	1	94
	8.3	1,821	101	166	528	209	165	97	78	185	117	21	154
	100.0	21,986	2,524	1,838	3,777	1,500	1,916	2,091	3,624	2,115	1,710	411	480
		100.0	11.5	8.4	17.2	6.8	8.7	9.5	16.5	9.6	7.8	1.9	2.2

Table 18

AGENCY BY  
ACCIDENT TYPE

## ALL INDUSTRIES

July 1, 1970 - June 30, 1971

PERCENT

## AGENCY

## TOTAL

STRUCK BY OR  
STRIKING AGAINSTCAUGHT IN, ON  
OR BETWEEN

## SLIPS AND FALLS

ACCIDENTS INVOLVING  
MOVING VEHICLESSTRAIN OR  
OVER-EXERTIONCONTACT WITH  
TEMPERATURE  
EXTREMESINHALATION, ABSORPTION  
OR SWALLOWINGCONTACT WITH  
ELECTRIC CURRENTEXPLOSION,  
FLASH-BACK, ETC.

## OTHER

MACHINES	882	437	369	11	-	58	4	-	1	-	2
ELEVATORS	22	6	10	6	-	-	-	-	-	-	-
HOISTING APPARATUS	292	162	115	2	-	10	-	-	2	-	1
CONVEYORS	113	35	67	4	-	6	-	-	1	-	-
VEHICLES	1,611	473	251	81	677	118	1	-	1	1	8
HAND TOOLS	3,385	2,763	233	30	-	315	26	-	2	5	11
CHEMICALS, HOT OR INJURIOUS SUBSTANCES	1,416	76	2	5	-	18	580	384	7	58	286
WORKING SURFACES	3,948	116	30	3,325	-	469	-	-	-	-	8
LADDERS	288	34	9	229	-	15	-	-	-	-	1
CONTAINERS	991	429	98	14	-	437	1	-	-	10	2
TREES, LOGS, LUMBER	1,636	1,253	162	33	-	180	-	1	-	1	6
BOILERS, PRESSURE VESSELS	83	34	17	-	-	22	1	-	-	8	1
PUMPS, PRIME-MOVERS	93	32	39	-	-	20	2	-	-	-	-
MECHANICAL POWER											
TRANSMISSION APPARATUS	122	24	92	1	-	5	-	-	-	-	-
ELECTRICAL APPARATUS	149	31	10	1	-	24	8	-	57	18	-
FLYING PARTICLES,											
UNASSIGNED	1,692	235	-	-	-	-	-	-	-	-	1,457
ANIMALS	364	120	9	55	-	15	4	1	-	-	160
MOTION OR PRESSURE	1,082	8	-	10	-	1,061	-	-	-	-	3
ENVIRONMENTAL CONDITIONS	31	2	-	1	-	-	22	-	1	-	5
MISCELLANEOUS AGENCIES	3,282	2,086	335	32	-	706	7	6	-	39	71
UNCLASSIFIED, INSUFFICIENT DATA	504	118	7	47	-	68	6	6	-	1	251
TOTAL	21,986	8,474	1,855	3,887	677	3,547	662	398	72	141	2,273
PERCENT	100.0	38.5	8.4	17.7	3.1	16.1	3.0	1.8	0.3	0.6	10.3

### SEX AND MARITAL STATUS BY AGE GROUP

July 1, 1970 - June 30, 1971

Median Age of Workers Injured: (Both Sexes)  
Median Age of Male Workers Injured:  
Median Age of Female Workers Injured:



Table 20

AGE AND INDUSTRY DIVISION  
ALL WORK INJURIES

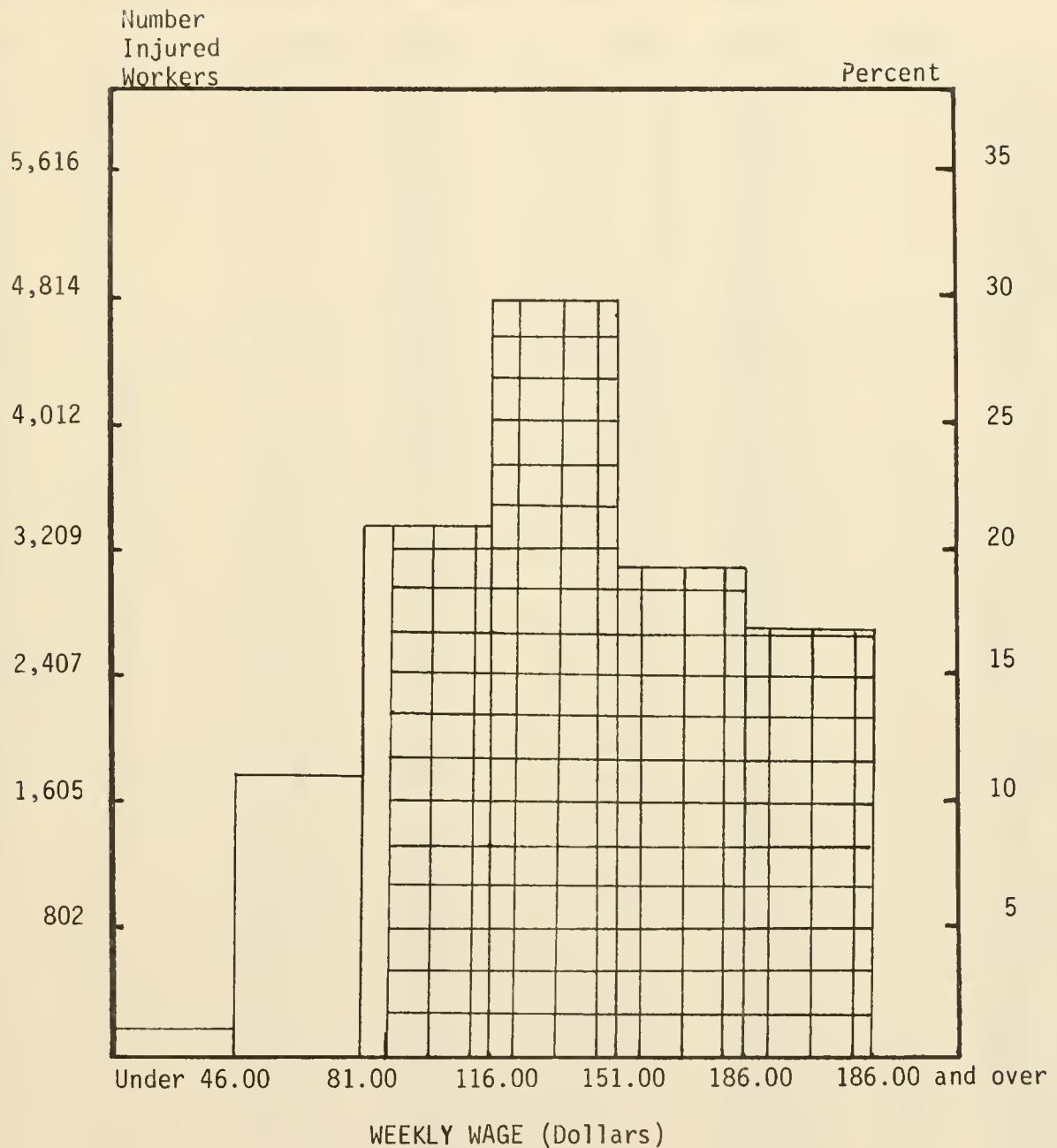
July 1, 1970 - June 30, 1971

AGE	TOTAL	AGRICULTURE & SERVICES	MINERAL EXTRACTION	CONTRACT CONSTRUCTION	MANUFACTURING	TRANSPORTATION, & UTILITIES	TRADE	FINANCE, INSURANCE & REAL ESTATE	SERVICE	GOVERNMENT	OTHER
Under 14	6	1	-	-	2	-	2	-	-	1	-
14 - 15	36	10	-	-	3	1	10	-	4	7	1
16 - 17	394	23	-	14	25	7	225	4	56	40	-
18 - 19	1,217	36	43	122	355	23	375	4	138	119	2
20 - 24	3,529	86	152	444	1,183	136	858	24	309	337	-
25 - 29	2,938	78	140	437	992	175	634	15	233	233	1
30 - 34	2,481	50	109	419	797	190	518	11	157	228	2
35 - 39	1,983	40	74	336	590	149	420	11	148	215	-
40 - 44	1,947	47	88	342	522	155	392	8	159	233	1
45 - 49	1,786	47	68	296	443	132	358	15	159	267	1
50 - 54	1,717	49	72	273	383	89	351	7	173	320	-
55 - 59	1,422	45	56	193	292	81	260	12	170	313	-
60 - 64	933	35	29	98	201	42	171	7	106	243	1
65 - 69	204	21	7	21	18	5	45	3	37	47	-
70 - 74	55	5	2	3	4	1	15	1	13	11	-
75 and Over	24	3	-	1	5	1	3	2	4	5	-
Age not given	1,314	48	54	308	428	44	234	4	100	94	-
TOTAL	21,986	624	894	3,307	6,243	1,231	4,871	128	1,966	2,713	9
Median Age (years)	34.0	35.0	33.4	35.4	31.7	36.6	22.2	36.3	35.7	42.3	-

CHART 3

DISTRIBUTION OF WEEKLY WAGES  
OF INJURED WORKERS

7-1-70 - 6-30-71



The shaded section of the chart represents earnings above that required to enable the injured workmen to qualify for the maximum weekly benefit of \$60.00. 85.2% of all injured workers had earnings above that required to qualify for the maximum weekly benefit.



Table 21

DISTRIBUTION OF WEEKLY WAGES  
OF 16,046 INJURED WORKERS\*

July 1, 1970 - June 30, 1971

WEEKLY WAGE	TOTAL		MEN		WOMEN	
	Number	Percent	Number	Percent	Number	Percent
Total	16,046	100.0	14,079	100.0	1,967	100.0
\$ 30 or less	52	.2	35	.2	17	.9
31 - 35	50	.2	24	.2	26	1.3
36 - 40	50	.2	19	.1	31	1.6
41 - 45	43	.2	23	.1	20	1.0
46 - 50	119	.5	75	.5	44	2.2
51 - 55	96	.4	42	.3	54	2.7
56 - 60	200	.9	112	.8	88	4.5
61 - 65	217	1.0	92	.7	125	6.4
66 - 70	351	1.6	176	1.3	175	8.9
71 - 75	321	1.5	160	1.1	161	8.2
76 - 80	464	2.1	242	1.7	222	11.3
81 - 85	357	1.6	218	1.5	139	7.1
86 - 90	438	2.0	291	2.1	147	7.5
91 - 95	410	1.9	323	2.3	87	4.4
96 - 100	644	2.9	540	3.8	104	5.3
101 - 105	460	2.1	391	2.8	69	3.5
106 - 110	486	2.2	425	3.0	61	3.1
111 - 115	588	2.7	547	3.9	41	2.1
116 - 120	601	2.7	571	4.1	30	1.5
121 - 125	753	3.4	714	5.1	39	1.9
126 - 130	835	3.8	791	5.6	44	2.2
131 - 135	626	2.8	599	4.3	27	1.4
136 - 140	768	3.5	737	5.2	31	1.6
141 - 145	525	3.4	502	3.6	23	1.2
146 - 150	702	3.2	666	4.7	36	1.8
151 - 155	463	2.1	440	3.1	23	1.2
156 - 160	532	2.4	517	3.7	15	.8
161 - 165	497	2.3	485	3.4	12	.6
166 - 170	494	2.2	482	3.4	12	.6
171 - 175	461	2.1	452	3.2	9	.5
176 - 180	372	1.7	367	2.6	5	.3
181 - 185	275	1.3	268	1.9	7	.4
186 - 190	205	.9	192	1.4	13	.7
191 - 195	192	.9	184	1.3	8	.4
196 - 200	340	1.5	335	2.4	5	.3
201 - 205	283	1.3	280	2.0	3	.2
206 - 210	204	.9	203	1.4	1	.1
211 - 215	102	.5	100	.7	2	.1
216 & Over	1,470	6.7	1,459	10.4	11	.6
Arithmetic Mean	\$136.99		\$143.62		\$89.50	
Median	\$135.88		\$139.77		\$80.95	

\*Based upon employers' reports of work injuries received by the Board. Includes all injuries reported where employees worked 30 or more hours per week, including overtime.

Table 22

WORK INJURIES AS  
REPORTED BY COUNTY

## ALL INDUSTRIES

July 1, 1970 - June 30, 1971

County	Percent	Total	No Lost Time	Percent	Lost Time	Percent	Other	Percent
Beaverhead	1.3	284	196	69.0	70	24.6	18	6.4
Big Horn	1.2	266	200	75.2	56	21.1	10	3.7
Blaine	.6	128	82	64.1	34	26.6	12	9.3
Broadwater	.2	57	39	68.4	14	24.6	4	7.0
Carbon	.6	145	90	62.1	48	33.1	7	4.8
Carter	.1	12	9	75.0	3	25.0	--	--
Cascade	9.9	2,182	1,474	67.6	588	26.9	120	5.5
Chouteau	.6	128	84	65.6	39	30.5	5	3.9
Custer	1.6	359	258	71.9	86	23.9	15	4.2
Daniels	.2	42	30	71.4	9	21.4	3	7.2
Dawson	1.1	246	172	69.9	67	27.2	7	2.9
Deer Lodge	2.3	498	228	45.8	230	46.2	40	8.0
Fallon	.6	127	75	59.0	47	37.0	5	4.0
Fergus	1.1	251	175	69.7	60	23.9	16	6.4
Flathead	6.5	1,421	980	69.0	395	27.8	46	3.2
Gallatin	4.3	953	668	70.1	226	23.7	59	6.2
Garfield	.1	22	15	68.2	5	22.7	2	9.1
Glacier	1.4	319	227	71.2	83	26.0	9	2.8
Golden Valley	.1	9	8	88.9	1	11.1	--	--
Granite	.6	131	80	61.1	44	33.6	7	5.3
Hill	2.1	466	343	73.6	102	21.9	21	4.5
Jefferson	1.1	253	97	38.3	57	22.5	99	39.2
Judith Basin	.1	33	15	45.5	14	42.4	4	12.1
Lake	2.0	447	322	72.0	96	21.5	29	6.5
Lewis and Clark	4.9	1,082	699	64.6	269	24.9	114	10.5
Liberty	.2	34	28	82.4	5	14.7	1	2.9
Lincoln	6.7	1,472	1,071	72.8	354	24.0	47	3.2
Madison	.2	57	37	64.9	16	28.1	4	7.0
McCone	.2	52	39	75.0	12	23.1	1	1.9
Meagher	.4	101	61	60.4	36	35.6	4	4.0
Mineral	.5	110	56	50.9	50	45.5	4	3.6
Missoula	10.9	2,401	1,735	72.3	536	22.3	130	5.4
Musselshell	.4	94	61	64.9	26	27.7	7	7.4
Park	1.4	315	233	74.0	72	22.8	10	3.2
Petroleum	.1	8	4	50.0	3	37.5	1	12.5
Phillips	.3	64	48	75.0	13	20.3	3	4.7
Pondera	1.5	321	231	72.0	69	21.5	21	6.5
Powder River	.3	58	35	60.3	17	29.3	6	10.4
Powell	.9	210	135	64.3	52	24.8	23	10.9
Prairie	.2	54	42	77.8	9	16.7	3	5.5
Ravalli	1.4	305	188	61.6	100	32.8	17	5.6
Richland	1.3	281	182	64.8	88	31.3	11	3.9
Roosevelt	.8	178	104	58.4	63	35.4	11	6.2
Rosebud	.9	192	129	67.2	56	29.2	7	3.6
Sanders	1.6	359	236	65.7	103	28.7	20	5.6
Sheridan	.2	55	32	58.2	19	34.5	4	7.3
Silver Bow	4.4	964	524	54.4	372	38.6	68	7.0
Stillwater	.7	156	110	70.5	39	25.0	7	4.5

(Continued)

Table 22

WORK INJURIES AS  
REPORTED BY COUNTY (continued)

## ALL INDUSTRIES

July 1, 1970 - June 30, 1971

County	Percent	Total	No Lost Time	Percent	Lost Time	Percent	Other	Percent
Sweet Grass	.3	79	58	73.4	19	24.1	2	2.5
Teton	.5	123	76	61.8	34	27.6	13	10.6
Toole	.8	181	106	58.6	56	31.9	19	10.5
Treasure	.1	18	11	61.1	7	39.9	-	-
Valley	1.4	308	238	77.3	60	29.5	10	3.2
Wheatland	.2	47	37	78.7	7	14.9	3	6.4
Wibaux	.1	22	12	54.5	10	45.5	-	-
Yellowstone	13.1	2,883	2,114	73.3	683	23.7	86	3.0
Out of State	.6	136	73	53.7	44	32.4	19	13.9
Other	2.2	487	260	53.4	159	32.6	68	14.0
TOTALS	<u>100.0</u>	<u>21,986</u>	<u>14,872</u>	<u>67.6</u>	<u>5,832</u>	<u>26.5</u>	<u>1,282</u>	<u>5.8</u>

DEPARTMENT OF SAFETY  
ANNUAL REPORT

July 1, 1970 - June 30, 1971

RESPONSIBILITIES

The department is responsible for the administration of the Industrial Safety Programs as provided for in Title 41, Chapter 17, Montana Safety Act; Title 50, Chapter 1, Regulation of Quartz Mining Industry; Title 50, Chapters 4 and 5, Regulation of Coal Mining Industry; Title 50, Chapter 9, Consolidation of Boiler and Mine Inspectors; Title 69, Chapter 15, Boiler Inspection - Engineer's License. The department is a designated agency responsible for carrying out the responsibilities of the federal agreement in accordance with the Occupational Safety and Health Act of 1970.

FUNCTIONS

The department performs eight major functions; inspection, investigation, enforcement, training, education, accident coding, licensing and administration.

ORGANIZATION

The department employs nineteen full-time personnel. These include: a safety director, a safety supervisor, a logging inspector, two construction inspectors, a petroleum inspector, two general inspectors, two boiler inspectors, a coal mine inspector, three metal mine inspectors, a code and training specialist, a report codifier, and three administrative personnel. The federal grant permitted increasing four fieldmen and two clerk-typists to our staff. The purpose of these increases is to gather data, study our needs and prepare a state plan.

ACTIVITIES

To meet the increased demands of Montana industry in the area of safety, the department intensified their efforts as represented by the following activities:

Conducted 4,595 safety inspections of employers to evaluate existing industrial safety requirements. This figure includes 3,389 boiler inspections.

Issued 127 work orders to alleviate unsafe working conditions and/or safety code violations.

Investigated 195 fatal and non-fatal injuries which were considered to be major in severity.

Boiler licenses were renewed for 2,800 operators and 547 examinations were held for new applicants and 405 licenses issued.

Conducted 40 first aid courses with an attendance of 616.

Conducted 242 safety meetings with an attendance of 3,575.

Presented 267 safety films with an attendance of 6,395.

Conducted 16 industrial safety courses with an attendance of 663.

The power distribution and transmission lines safety code was adopted.

Preliminary figures have indicated that the disabling injury rate, all industries, decreased by 15.4% for the period July 1, 1970 through June 30, 1971.

#### TABLES

Table Number 1 reflects insofar as possible the definable work activities of the department. There were increases in work units in most activities compared with the preceding year.





# BOILER LICENSES

July 1970 - June 1971

<u>Class</u>	<u>Number Renewals</u>	<u>Number Originals</u>	<u>Total by Class</u>
1st	421	72	493
2nd	167	22	189
3rd	943	81	1,024
L. P.	1,009	235	1,244
1st A & E	141	13	154
2nd A & E	79	13	92
Traction	40	2	42
TOTALS	2,800	438	3,238





